

PRODUCTION OF ALPHA-OLEFIN OLIGOMER

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Abstract of JP9188634

PROBLEM TO BE SOLVED: To stably produce α -olefin oligomers, mainly 1-hexene starting from ethylene in high yield and selectivity by using a specific catalyst with industrial advantage.

SOLUTION: In the production of α -olefin oligomers, a catalyst prepared from at least three components, namely a chromium-containing compound, an alkylaluminum compound and a halogen-containing compound is used. As a chromium-containing compound, is used a chromium-pyrrolyl bond-containing compound prepared by reaction of a pyrrole compound selected from a pyrrole which may has a substituent or its metal salts with a chromium salt in a (halogenated) hydrocarbon solvent. This chromium-containing compound is brought into contact with an alkylaluminum compound in the presence of an α -olefin to prepare the catalyst for this invention. According to this process, instead of pyrrole which is poor in storage stability, this compound having a stable chromium-pyrrole bond is used to prepare the catalyst and objective α -olefin oligomers are obtained without complicated operations.

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